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1 [On properties of read and write sets in the Awerbuch-Peleg scheme for tracking mobile users](#)

Ishan P. Weerakoon, Alexander L. Wijesinha, Depinder P. Sidhu

May 2000 *Wireless Networks*, Volume 6 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(209.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 7, Citation Count: 0

An important issue in the design of a wireless network is the scheme used for tracking the locations of its mobile users. A formal scheme for efficient location tracking proposed by Awerbuch and Peleg uses a locality‐preserving distributed directory ...

2 [Using hierarchical location names for scalable routing and rendezvous in wireless sensor networks](#)

Fang Bian, Ramesh Govindan, Scott Schenker, Xin Li

November 2004 *SenSys '04: Proceedings of the 2nd international conference on Embedded networked sensor systems*

Publisher: ACM

Full text available: [pdf\(70.34 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 26, Citation Count: 0

Key words: HLI, HLR, data-centric routing primitives, hierarchical routing, sensor networks

3 [Database and location management schemes for mobile communications](#)

Anna Hać, Bo Liu

December 1998 *IEEE/ ACM Transactions on Networking (TON)*, Volume 6 Issue 6

Publisher: IEEE Press

Full text available: [pdf\(264.51 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 68, Citation Count: 0

Key words: GSM, broadcast, cost, mobility management, partition, routing, switching

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4 Can active tracking of inroamer location optimise a live GSM network?

Katerina Dufková, Jirí Danihelka, Michal Ficek, Ivan Gregor, Jan Kouba

December 2007 CoNEXT '07: Proceedings of the 2007 ACM CoNEXT conference

Publisher: ACM

Full text available:  pdf(188.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 4, Citation Count: 0

The mobile communication industry has experienced huge growth in recent years, which amplified the competition among telecommunication companies. This inspired the search for new means of GSM network optimization that would bring better signal coverage ...


Keywords: GSM, SS7, active tracking, inroamer, mobile networks

5 Supporting mobile commerce applications using dependable wireless networks

Alisha D. Malloy, Upkar Varshney, Andrew P. Snow

June 2002 Mobile Networks and Applications, Volume 7 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(349.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 376, Citation Count: 5

Mobile commerce (m-commerce) is an emerging discipline involving applications, mobile devices, middleware, and wireless networks. While most of existing e-commerce applications can be modified to run in a wireless environment, m-commerce also involves ...

Keywords: availability, dependability, e-commerce, m-commerce, performance evaluation, reliability, simulation, survivability, wireless networks

6 Mobility-based anomaly detection in cellular mobile networks

Bo Sun, Fei Yu, Kui Wu, Victor C. M. Leung

October 2004 WiSe '04: Proceedings of the 3rd ACM workshop on Wireless security

Publisher: ACM

Full text available:  pdf(164.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 135, Citation Count: 0

This paper presents an efficient on-line anomaly detection algorithm that can effectively identify a group of especially harmful *internal* attackers - *masqueraders* in cellular mobile networks. Our scheme is derived from a well-developed ...

Keywords: anomaly detection, cellular mobile networks, data compression

7 Integrated service mobile internet: RSVP over mobile IPv4&6

Shing-Juan Leu, Ruay-Shiung Chang

December 2003 Mobile Networks and Applications, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  pdf(200.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 65, Citation Count: 0

While the Internet keeps its penetration into every facet of life and every corner of the globe, two things stand out. One is the hunger for high quality of services to convey audio and video data. The other is the desire for ubiquitous connections. ...


Keywords: mobile internet protocol, quality of service, resource reSerVation protocol

8 Determination of the Registration Point for Location Update by Dynamic Programming in PCS

Chae Y. Lee, Seon G. Chang

September 2001 Wireless Networks, Volume 7 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(205.97 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 19, Citation Count: 1

Location management is important to effectively keep track of mobile terminals with reduced signal flows and database queries. Even though dynamic location management strategies are known to show good performance, we in this paper consider the static ...

Keywords: dynamic programming, location management, selective pointer forwarding

9 Dynamic hierarchical database architecture for location management in PCS networks

Joseph S. M. Ho, Ian F. Akyildiz

October 1997 IEEE/ ACM Transactions on Networking (TON), Volume 5 Issue 5

Publisher: IEEE Press

Full text available:  pdf(292.92 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 51, Citation Count: 18

Keywords: call delivery, directory register, home location register, location registration, visitor location register

10 A speed-adaptive strategy for location management cost reduction in cellular networks

ZhiJun Wang, Jingyuan Zhang

November 2006 Wireless Networks, Volume 12 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  pdf(456.11 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 61, Citation Count: 0

A speed adaptive location management scheme will greatly reduce the cost of tracking mobile stations, because mobile stations can travel at a wide range of speeds. Recently, an elegant distance- and time-based scheme has been proposed. The scheme uses ...


Keywords: cellular networks, location management, location update, paging, performance comparison

11 Escrow techniques for mobile sales and inventory applications

Narayanan Krishnakumar, Ravi Jain

August 1997 Wireless Networks, Volume 3 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(233.62 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 29, Citation Count: 5

We address the design of architectures and protocols for providing mobile users with integrated Personal Information Services and Applications (PISA), such as personalized news and financial information, and mobile database access. We present a system ...

12 Location-based notification as a general-purpose service



Jonathan P. Munson, Vineet K. Gupta

September 2002 WMC '02: Proceedings of the 2nd international workshop on Mobile commerce

Publisher: ACM

Full text available: pdf(190.40 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 119, Citation Count: 4

An often-discussed mobile commerce application is proximity-based coupon delivery. In a typical scenario a merchant is notified when a valued customer is within some distance of a retail outlet, upon which the customer is delivered a coupon or some notice ...

Keywords: Pervasive computing, mobile commerce, wireless notification

13 Design and implementation of the management agent for mobile devices based on OMA DM



Jaeyoung Shin, Youngwoo Chung, Kwang Sun Ko, Young Ik Eom

January 2008 ICUI MC '08: Proceedings of the 2nd international conference on Ubiquitous information management and communication

Publisher: ACM

Full text available: pdf(282.10 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 24, Citation Count: 0

With the rapid advancement of mobile communication technologies, mobile devices are evolving into convergence devices with various multimedia capabilities. However, the needs for high-performance devices demand complicated settings, and thus contain ...

Keywords: OMA DM, device management, mobile device

14 An auxiliary user location strategy employing forwarding pointers to reduce network impacts of PCS

Ravi Jain, Yi-Bing Lin

June 1995 Wireless Networks, Volume 1 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.40 MB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 25, Citation Count: 23

We propose an auxiliary strategy, called per-user forwarding, for locating users who move from place to place while using Personal Communications Services (PCS). The forwarding strategy augments the basic location strategy proposed in existing standards ...



Location management for mobile commerce applications in wireless Internet environment

Upkar Varshney

August 2003 ACM Transactions on Internet Technology (TOIT), Volume 3 Issue 3

Publisher: ACM

Full text available: pdf(630.00 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 438, Citation Count: 8

With recent advances in devices, middleware, applications and networking infrastructure, the wireless Internet is becoming a reality. We believe that some of the major drivers of the wireless Internet will be emerging mobile applications such as mobile ...

Keywords: Mobile commerce, infrastructure dependability, location management, mobile applications, satellites, wireless Internet, wireless LANs, wireless multicast

16 User profile replication with caching for distributed location management in mobile communication networks



Hoang Nguyen Minh, Harmen R. van As

March 2001 SAC '01: Proceedings of the 2001 ACM symposium on Applied computing

Publisher: ACM

Full text available: pdf(294.68 KB)

Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 40, Citation Count: 0

Keywords: TINA, UMTS, location management, mobility management

17 A distributed database architecture for global roaming in next-generation mobile networks

Zuji Mao, Christos Douligeris

February 2004 IEEE/ACM Transactions on Networking (TON), Volume 12 Issue 1

Publisher: IEEE Press

Full text available: pdf(427.91 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 201, Citation Count: 1

The next-generation mobile network will support terminal mobility, personal mobility, and service provider portability, making global roaming seamless. A location-independent personal telecommunication number (PTN) scheme is conducive to implementing ...

Keywords: database architecture, location management, location tracking, mobile networks

18 Combinatorial mobile IP: a new efficient mobility management using minimized paging and local registration in mobile IP environments

Taehwan Choi, Laeyoung Kim, Jeongeun Nah, Jooseok Song

May 2004 Wireless Networks, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(247.90 KB)

Additional Information: full citation, abstract, references, cited by, index terms


Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 59, Citation Count: 1

Combinatorial Mobile IP, a new mobility management scheme for Mobile IP, is proposed and analyzed. We present how to adopt mobility management schemes on cellular

networks and adapt them in Mobile IP without disrupting the nature of the Internet.
We ...

Keywords: micro-mobility protocol, mobile IP, mobility management, random walk model on a connected graph


- 19 [Cost reduction in location management using semi-realtime movement information](#)
Guang Wan, Eric Lin
July 1999 Wireless Networks, Volume 5 Issue 4
Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(191.60 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 44, Citation Count: 9

This paper introduces a dynamic paging scheme based on the semi-realtime movement information of an individual user, which allows a more accurate predication of the user location at the time of paging. In general, a realtime location tracking scheme ...

- 20 [Distributed PIN verification scheme for improving security of mobile devices](#)
Jian Tang, Vagan Terziyan, Jari Veijalainen
April 2003 Mobile Networks and Applications, volume 8 Issue 2
Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(298.43 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 220, Citation Count: 1

The main driving force for the rapid acceptance rate of small sized mobile devices is the capability to perform e-commerce transactions at any time and at any place, especially while on the move. There are, however, also weaknesses of this type of e-commerce, ...

Keywords: measure, mobile device, probability, risks, security, uncover

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